

Project Name: CAN
Project Code: CAN **Site ID:** CP159 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	Locality:	Flood behind levee CP 158
Date Desc.:	01/01/79	Elevation:	12 metres
Map Ref.:	Sheet No. : 9030	Rainfall:	800
Northing/Long.:	150.7225	Runoff:	Slow
Easting/Lat.:	-33.5966666666667	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Soil pit, Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Flood plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	45 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Eutrophic Red Kandosol		Principal Profile Form:	Gn2.11
ASC Confidence:		Great Soil Group:	No suitable group
All necessary analytical data are available.			

Site Disturbance: Cultivation. Rainfed

Vegetation:

Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.15 m	Dark brown (7.5YR3/2-Moist); ; Loamy sand; Massive grade of structure; Weak consistence; Clear change to -
11A	0.15 - 0.3 m	Dark reddish brown (5YR3/2-Moist); ; Sandy loam (Light); Massive grade of structure; Weak consistence; Field pH 6.2 (pH meter);
A	0.3 - 0.45 m	Dark reddish brown (5YR3/2-Moist); ; Sandy loam; Massive grade of structure; Weak consistence; Gradual change to -
B1	0.45 - 0.67 m	Dark reddish brown (5YR3/3-Moist); ; Sandy loam (Heavy); Massive grade of structure; Very strong consistence; Field pH 6.2 (pH meter); Gradual change to -
B21	0.67 - 0.88 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Massive grade of structure; Very strong consistence; Field pH 6.2 (pH meter); Gradual change to -
B22	0.88 - 1.1 m	Yellowish red (5YR4/6-Moist); ; Clay loam; Massive grade of structure; Very strong consistence;
B31	1.1 - 1.3 m	Yellowish red (5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Very strong consistence; Field pH 6.4 (pH meter);
B32	1.3 - 1.5 m	Yellowish red (5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Very strong consistence;
C1	1.5 - 1.7 m	Yellowish red (5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Very firm consistence; Field pH 6.5 (pH meter);

Morphological Notes

Observation Notes

MODERN/HOLOCENE ALLUVIUM:45-88CM SL.VESICULAR:0-15 LATE FLOOD DEPOSIT:

Site Notes

RICHMOND

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
0.15 - 0.3	6.2A	0.02A	4.7K	1.2	0.09	0	6.7B	12.7J	0.00
0.45 - 0.67	6.2A	0.02A	4.4K	1.3	0.1	0.07	4.2B	10.1J	0.69
0.67 - 0.88	6.2A	0.02A	3.5K	1.4	0.11	0.07	6B	11.1J	0.63
1.1 - 1.3	6.4A	0.02A	2.7K	1.6	0.1	0.04	3.2B	7.6J	0.53
1.5 - 1.7	6.5A	0.02A	1.9K	1.2	0.06	0	1.8B	5J	0.00

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0.15 - 0.3		1.07D							3D	60	21	15
0.45 - 0.67		0.62D							8D	44	25	23
0.67 - 0.88		0.5D							9D	45	23	24
1.1 - 1.3		0.21D							17D	46	17	21
1.5 - 1.7		0.12D							32D	44	11	13

[illegible]

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Laboratory Analyses Completed for this profile

13_C_FE	Extractable Fe(%) - Method recorded as C
13A1_AL	Oxalate-extractable aluminium
13A1_FE	Oxalate-extractable iron
13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance